

M.Sc. (Industrial Chemistry) and Ph.D course work

(Mid Term - 1 Examination, Oct 2021)

Time: 1 hours

Max. Marks = 30

Note: All questions are compulsory and carry equal marks.

UNIT -I

- Q1. (a) What is research problem? Define the main issues, required in formulating the research problem.
- (b) Write short notes on:
(a) Pilot survey;
(b) Components of a research problem;
- 5,5
- Q2. (a) Briefly describe the different steps involved in a research process.
- (b) Write short notes on:
(a) Design of the research project
(b) Objectives of research;
- 5,5
- Q3 (a) Research design in exploratory studies must be flexible but in descriptive studies, it must minimise bias and maximise reliability. Discuss.
- (b) Explain and illustrate the following research designs:
(a) Two group simple randomized design;
(b) Latin square design;
- 5,5